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Nanocomposites for Energy Harvesting

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Message from the Guest Editors

The development of low- and zero-carbon technologies is currently an important mission being pursued by humankind, and countries around the world are accelerating the development of renewable and clean energy. Currently, the development of energy harvesting devices such as solar cells, thermoelectric devices, and piezoelectric devices is being actively researched, and breakthroughs have been made in wearable and flexible devices. In addition, energy storage devices such as batteries and supercapacitors are being actively researched to increase capacitance and stability.

In this Special Issue, we will cover the development of nanocomposites using polymers, organic materials, nanomaterials (0, 1, 2, 3D), quantum dots, inorganic crystals, organic–inorganic hybrid materials and their utilization in various energy harvesting applications. The scope of this Special Issue is not limited to this category, and we would like to include research on the development of new materials and devices for energy harvesting.



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Special Issue



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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal-organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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